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March 2, 2004

DECLARATION, SPECIFICATIONS and PETITION

I, Douglas D. DeMasi, declare that I am a citizen of the United States of America residing at 1216 Beekman Road, Hopewell Junction, New York 12533. That I have read the foregoing specifications and claims and I verify, believe, I am the original, first and sole inventor of the invention or discovery in the Prefolded extended full flanged with many tacks built-in the paper, or self-adhesive double sided tape end with built-in extensions described and claimed herein. That I do not know and I do not believe that this invention was ever known or used before my invention or discovery thereof, or patented or described in any printed publication in any country before my invention or discovery thereof, or more than one year prior to this application or in public use or on sale in the United States for more than one year prior to this application. "That this invention or discovery has not been patented in any country foreign to the United States on the application filed by me or assigned more than 123 months before this application." And that no application for patent on this invention or discovery has been filed by me or by my representatives or assigns in any country foreign to the United States.

Further, that I acknowledge I have duty to disclose to the Patent and Trademark Office information that I am aware of and this material to the examiner of the application in accordance with, 37 CFR 156 "A".

WHEREFORE, I pray that letters patented be granted to me with the invention or discovery described and claimed in the foregoing specifications and claims, and I hereby subscribe my name to the foregoing specifications and claims, declaration and this petition.

The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on this information and belief are believed to be true. And further, that these statements were made within the knowledge that willfully false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued hereon.

Inventor's Full Name:

Signature:

Date:

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Continuous Rolled or Flat Self-Adhesive Double Sided Tape Flexible Air Vent Baffle

Related U.S. Applications Data

Reference Cited United States Patents

6357185	Obermeyer	3-19-2002
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5473847	Crookston	12-12-1995
5341612	Robbins	8-30-1994
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Abstract

The ventilation between the roof flooring and the insulation is extremely important, more so than many homeowners, builders, and contractors understand.

The only function of the air vent is to keep a continuous air flow between the roof flooring and the insulation. Without this, the insulation will start to fail and so will the home structure itself. And once the homeowner sees the problem in their home, the amount of work and expense to correct the problem will be huge.

This invention is not limited only to the roof, but also could very easily be applied to the walls or floor systems.

Claims 33 4 drawing sheets

I claim

- 1) The flanges on each side of the rolled or flat section will have self-sealing adhesive tape with a protective seal, and cover, for easy removal before the worker gets ready to install.
- 2) The extra strength and durability will exceed all the other air baffles and make them obsolete.
- 3) Less time for the worker to install the rolled or flat continuous air ventilation.
- 4) Double the air flow because of the greater area that is uninstalled by the large V shape, very minimal supports, that one would see on the past and present air baffles.
- 5) Less likely to be damaged during transportation because of the simple and superior construction design.
- 6) A worker could stand on the rolled or flat section continuous air ventilation and not destroy the product, but one could easily break the other air baffle with one finger, with very little effort.
- 7) Less lost time during the insulation process, because of the construction design and ease to work with.
- 8) Premeasured so there is no need for a ruler during installation of the continuous rolled or flat ventilation section.
- 9) Made from a light plastic, Styrofoam or flexible material just to mention a few.
- 10) Because of the post supporting design, within the continuous air ventilation rolled or flat section, there is not limit on interlocking the section together.
- 11) They can be cut into any special design to fit nice and tight.
- 12) There is no limit to how wide or thin the area needs to be for a proper installation.
- 13) The shape of the building or the many circular, triangular or any other shape or size, can be easily installed and filled before the insulation is installed.
- 14) Able to close the box end of the building, and still maintain the highest continuous air flow at all times.
- 15) Self sealing adhesive tape is on the ends of the post not just on the end flanges.
- 16) In the event the continuous rolled or flat section air baffle flanged ends are cut off, the post ends will hold itself up with no problem.

- 17) This product is not limited to homes, only. But can be used in commercial buildings, boats, ships aircraft.
- 18) The use is only limited by the human mind itself.
- 19) This product is by far the safest air baffle ever, not just by professionals by the average home would consider this product to be user friendly.
- 20) The continuous rolled or flat air baffle can be very flexible and user friendly and not at all like the very rigged air baffle that is being used now.
- 21) This product would not fail during the extreme force of blown insulation.
- 22) The installation of the job goes much easier and faster, because there is no need for any staples, nails, or any other hard to use item, to install between the rafters, or roof truss.
- 23) This design and product will cost a fraction more then the other outdated and inferior air baffles because it is impossible to compare together. There is no comparing.
- 24) All the other air baffles are very limited in their use, and prone to breaking because of the very fragile design and construction. They easily break in the transportation stage, when the work will use a staple gun or a hammer and nail. They simply split or shatter.
- 25) There have been many different manufacturers of the air baffle as one would see in the stores, but they all have the same basic design with the same problem. They are not as reliable as one would think.
- 26) Because of the excellent air flow, your also preventing unwanted fumes and gases, so there is no buildup.
- 27) Excellent ventilation will increase the life of the insulation so the insulation will breath much better and there is less chance for any condensation build-up.
- 28) Because of the excellent ventilation the cold area will stay colder, and this will keep the insulation working and breathing better, so it can do its job by keeping out the cold in the winter time and in the summer time the hot air will not be offered by the interior of the home being cold. All this is keeping the insulation and vapor barrier at its best working condition at all times.
- 29) Because of the many different hold posts there is some movement within and less likely to break if there is any horizontal movement.
- 30) In some cases, insulation will expand beyond the thickness, that's on the package. I know I've seen 12-30 paper face, expand to R-38 or greater and this pressure over time

will damage, as we know it to do. Then the problem will start, with loss of heat, and a great reduction in air flow but my design will not fail under these conditions.

- 31) When installing the continuous rolled or flat air baffle, it can be very easily installed to the vertical side wall of the roof rafter, roof truss, or any other section, that one finds the need to.
- 32) The continuous rolled or flat air baffle is the only universal air baffle that can be used in any construction installation application.
- 33) When installing into an uneven space, your able to break off some of the supporting post ends and connect the two pieces together for a tight even fit that will not fail and attach to the sidewalls of the rafter or truss for an unobstructed continuous air flow.

Description

Background of the Invention

1) Field of the Invention

Ever since the start of insulation, whether it be hay, straw, leaves or more modern material, as we know it, today, there has always been the problem of condensation.

It's widely known that water condensation build up will destroy insulation and not stop with destroying the structure within walls, roof, etc.

The only way to prevent this enormous problem is to have excellent air ventilation.

But this easily preventable problem has been overlooked and what's being installed now, is no more than a very small solution to a very big problem.

Brief
Description of the Drawing

Fig 1 – The continuous rolled air baffle being unrolled, clearly showing the flexible adhesive taped ends with the protected cover and the many different support posts with the adhesive tape ends, no nails or staples are needed to install to any surface.

Fig 2 – Showing the flat continuous air baffle with the many different support posts with the adhesive end and the protected cover on all the ends, there is no need for nails or staples to attach to any surface.

Fig 3 – Clearly showing a dome home where the regular air baffle would be impossible to use, simply because of the round roof.

Fig 4 – The chalet with very high ceiling, clearly showing how vertical the continuous rolled or flat air baffle is.

Fig 5 – The callow home, showing how the roof will taper off, from a large base to a very thin top. And how this invention can be cut to fit any work situation, and still work at the highest peak of perfection.

Fig 6 – The round outcove addition would be impossible to install air baffles as we know it today, and then perform as they should which they can't because of the hard round radius. The continuous rolled or flexible flat air baffle would do the job correctly and efficiently.

Fig 7 – Showing as standard width between the roof rafters or roof trusses. Showing very clearly how nicely the continuous rolled or flat flexible air baffle is completely secure to the roof flooring by the self sticking adhesive tape on the flanges and by the ending on the support post ends.

Fig 8 – Extra wide space or uneven space between the roof rafters or roof truss. What is very clear is how universal this air baffle is. You are able to stick the ends together for a tight seal and attach to the side walls of the rafter or truss and still have unobstructed air flow maintained always.

Fig 9 – Showing how easily to remove the protected tape adhesive stripes just before installing the continuous rolled or flat flexible air baffle.

Detailed Description of the Invention

Fig 1 - Showing the continuous rolled and flexible air baffle.

- 2) the Self-Adhesive Tape Flanged ends.**
- 3) The many support post.**
- 4) The end of the support posts with self adhesive end with the protected cover on each end.**
- 5) Showing the flexible mat that the support ends are attached to.**

Fig 2, 1) showing the continuous flexible flat air baffle.

- 2) Showing how easy to attach to the other end of the air baffle for a tight seal so there always
and unobstructed continuous air flow**
- 3) Showing the self adhesive taped ends**
- 4) Showing how easy to fold the end downward**
- 5) The flat supporting flexible holding mat**
- 6) The supporting post with the self adhesive tape**
- 7) The protected adhesive tape**

Fig 3 – 1) roof air vent

- 2) Continuous rolled roofing support ends**
- 3) Showing just how flexible the continuous rolled air baffle is**
- 4) Dome roof insulation being protected by the continuous rolled air baffle supporting mat.**
- 5) Sheetrock against the insulation**
- 6) Rounded rafters supporting the roof system with unobstructed continuous air flow**
- 7) Safety vent**

Fig 4)

- 1) chalet roof vent**
- 2) showing the continuous flat air baffle**
- 3) showing the supporting post ends that are attached to the roof by the self-adhesive tape on each end**
- 4) the insulation between the continuous flat, flexible air baffle**
- 5) the sheetrock against the insulation**
- 6) the chalet roof rafter on roof truss, showing the unobstructed air flow from the soffit vent to the roof vent.**
- 7) Soffit vent**

Fig 5)

- 1) Roof vent**
- 2) Willow house roof rafters**
- 3) Clearly showing how early the continuous rolled air baffle works, when installing on a rounded and tapered end roof**
- 4) Soffit vent**
- 5) The continuous rolled air baffle support post ends**
- 6) Even though the roof is tapered. The airflow is unobstructed**

Fig 6)

- 1) the outcove addition wall showing the continuous rolled air baffle support ends**
- 2) insulation between the continuous rolled air baffle and the studded walls**
- 3) the interior wall, against the insulation**
- 4) The supporting post ends, making sure for an even and unobstructed air flow**

- 5) Inside wall studs.

Fig 7)

- 1) roof flooring
- 2) the supporting post
- 3) the mat or backing for the continuous rolled or flat air baffle
- 4) the flanged ends that are connected to the continuous rolled or flat flexible backing or mat
- 5) roof rafter or roof truss end
- 6) insulation between the roof rafter, or roof truss
- 7) the self adhesive flanged tape attached to the bottom of the roof flooring.
- 8) The clean and unobstructed air flow section between the supporting post.

Fig 8)

- 1) the roof flooring
- 2) the supporting post ends sticking to the roof flooring
- 3) the continuous rolled or flat flexible backing or mat
- 4) the two separate self adhesive taped ends, taped securely together to form a tight seal so the airflow won't be blocked by the insulation pushing up against it.
- 5) The two separate air baffles are attached to the side of the roof rafter or roof truss
- 6) Insulation in the roof bay
- 7) Roof rafters on roof truss

Fig 9)

- 1) the protected self-adhesive tape tab is being removed just before installing between the roof rafters or roof truss

- 2) exposed self adhesive glue with the protected tape end being pulled off
- 3) the supporting post ends without the protected seal cover on
- 4) the support post
- 5) supporting backing or mat.

Fig 1 Not to scale

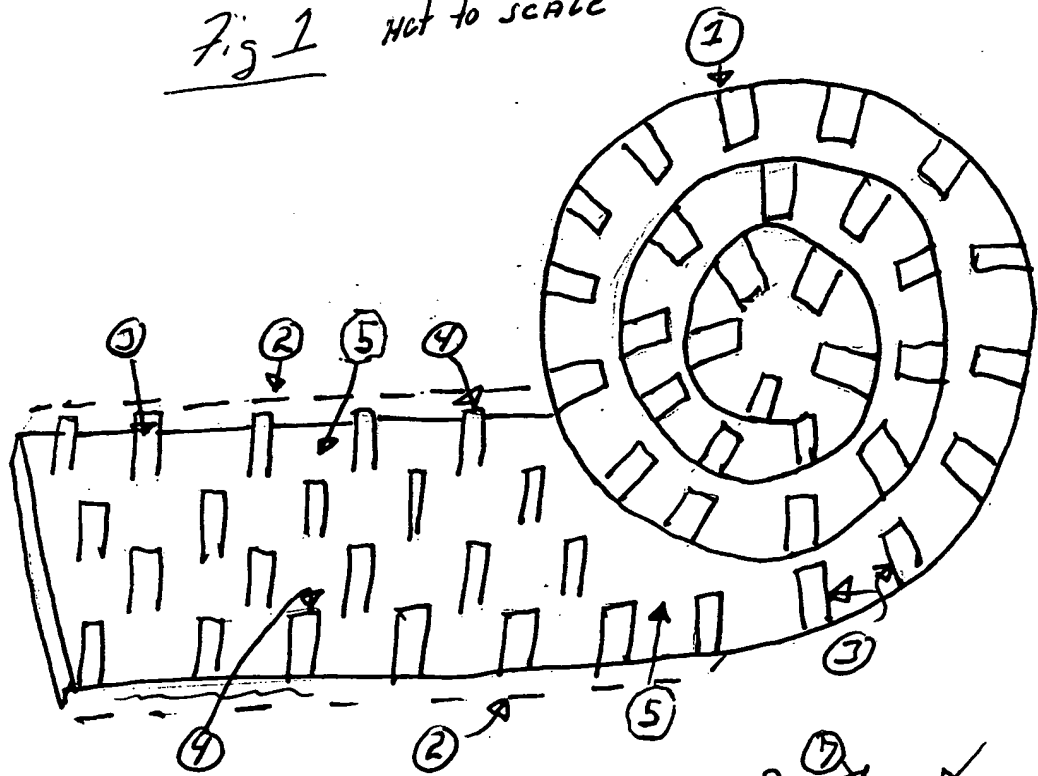
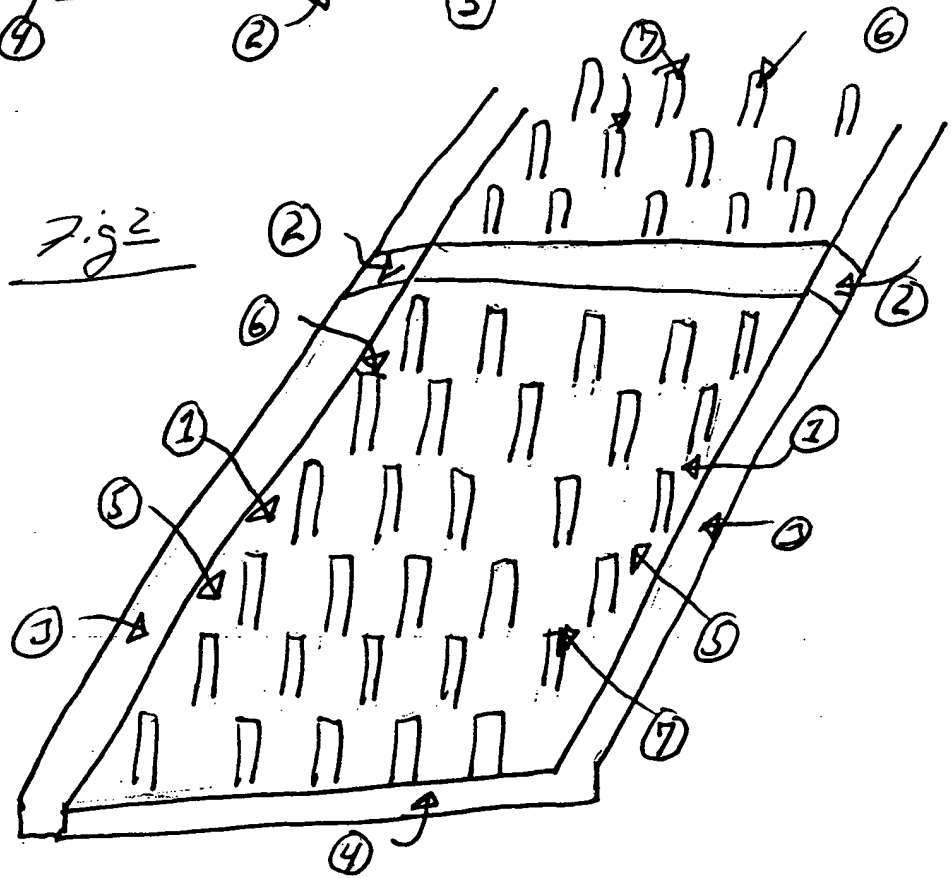


Fig 2



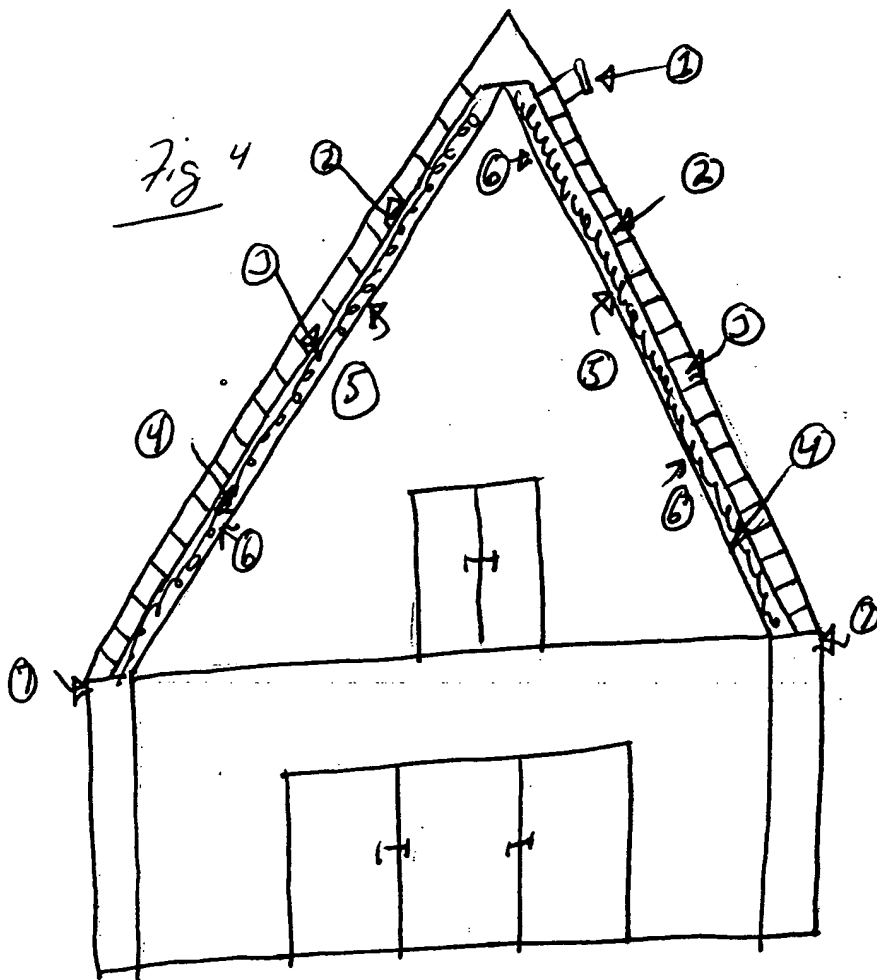
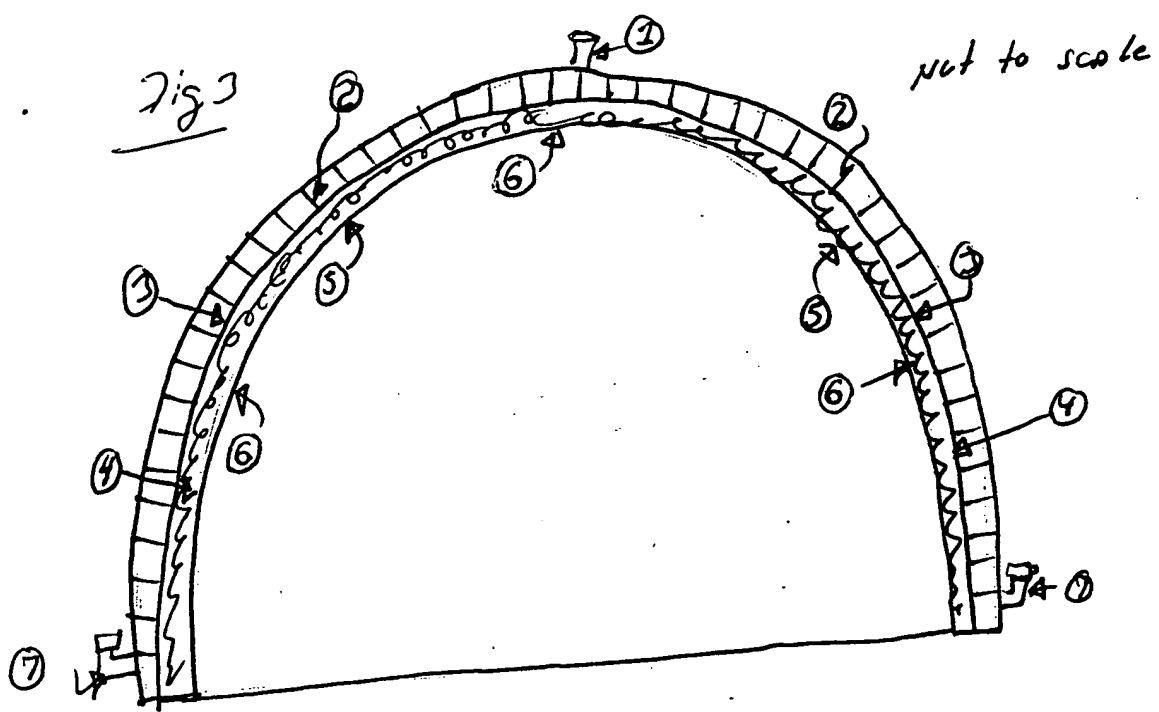


Fig 5

not to scale

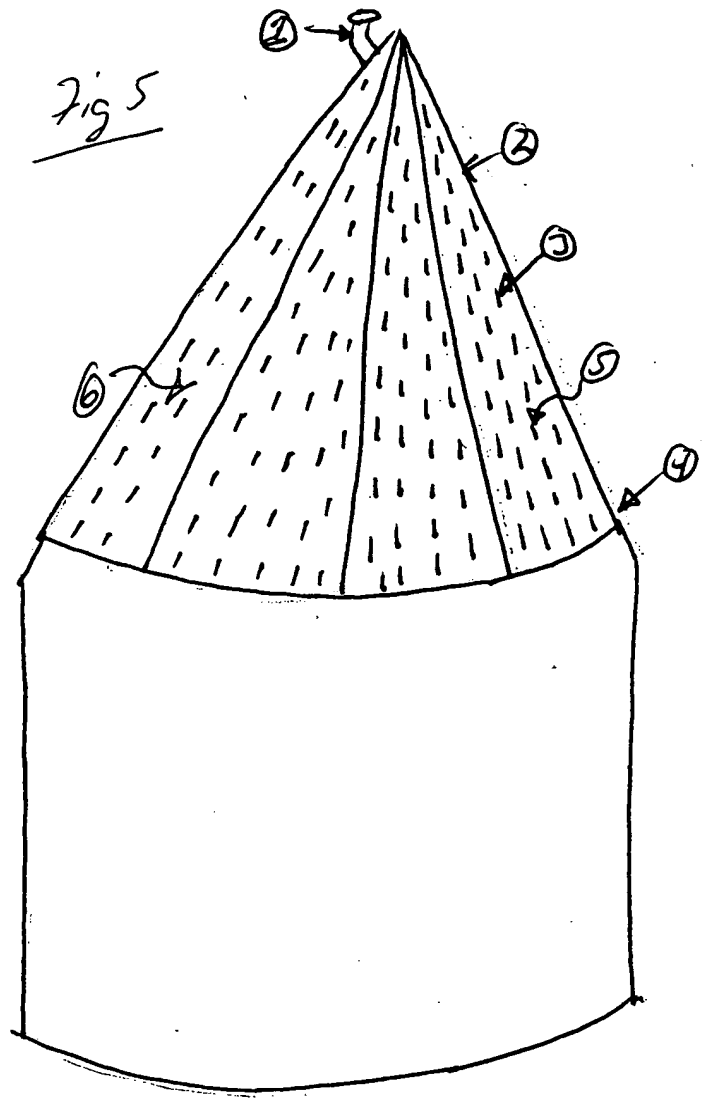
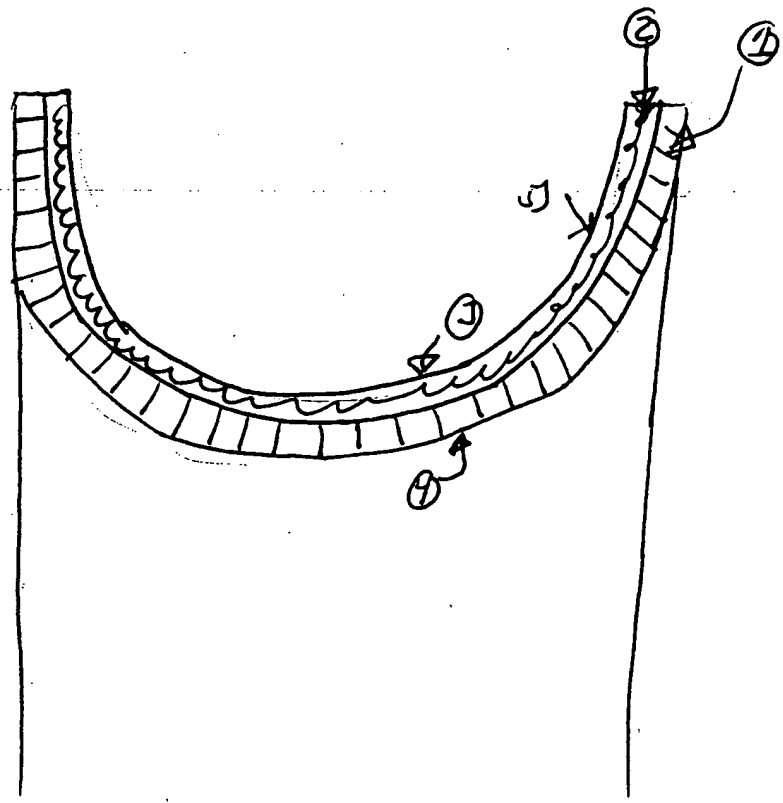
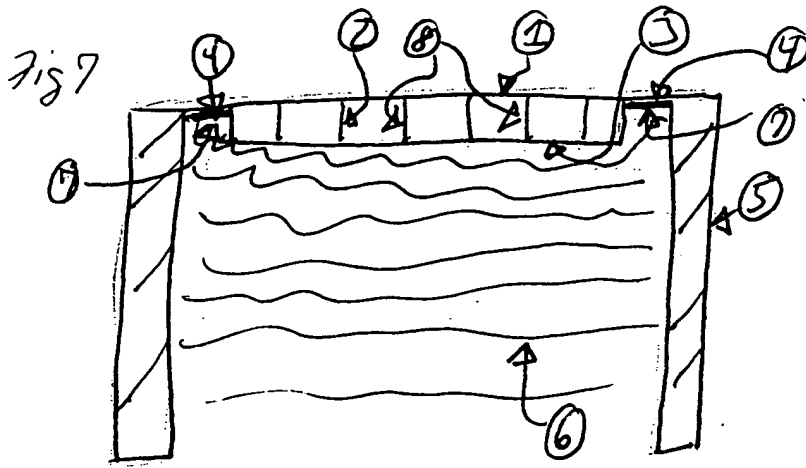


Fig 6





not to scale

